CLASS 8

SUBJECT :Algebra & GeometryWork sheet2

Marks:15Linear Equations

Date:9.11.2020

Answer all thefollowing questions(1×15=15)

1.Solve : $5(5t+6) - 2(t-3) = t + 14$

     A)3
     B)4
     C)5
     D)-1

2.Solve : $(y+2)/(y+3)=(y-1)/(y+2)$

     A) -7/2
     B) 5
     C) 4
     D) -4

3.Solve: If $x^2+6x+7=x^2+5x+12$, then x equals

     A) 6
     B) 7
     C) 5
     D) -3

4.Solve :$a \div 0.25 = 4 \div 5$

     A) 0.2

     B) 3

     C) 4

     D) 5.2

5.Solve : 9x/(7-6x) = 2

A) 1

B) 1.56

C) 8

D) 2/3

6.If 4x-5=16+12x , then x is

A) a fraction

B) an integer

C) a rational number

D) none of these

7. Solve: 2/x – 3/x +1 =3   (/ denotes ÷)

A) -1/2

B) -4

C) -2

D) -1/4

8.Solve: 1.95=0.5x – 2.05

A) 8

B) 10

C) 3

D) 61

9.The solution of the equation ax + b =0 is

A) a/b

B) ab

C) -b/a

D) a+b

10.Babita is now 7 years older than Sabita. If the sum of their ages is 33 years, find the age of each

A)20, 25 years

B)13, 20 years

C)16,17 years

D)24, 9 years

11.The present ages of A & B are in the ratio 4:5 and after 5 years, the ages will be in the ratio 5:6.The present age of A is

A)10years

B) 20years

C) 25years

D) 40years

12.The length of a rectangle is 8m more than it's breadth.If the perimeter of the rectangle is 40m, find the area of the rectangle

A) 84m²

B) 48m²

C) 110m²

D) 75.5m²

13.Two equal sides of a triangle are each 1m less than three times the third side. Find the dimensions of the triangle if it's perimeter is 54m

A) 20m, 20m, 21m

B) 1.6m, 3.6m, 12.5m

C) 4m, 5m, 9m

D) 8m, 23m, 23m

14.Solve: 0.32(10x – 2) =0.8x+14

A) 6.1

B) 2.5

C)2.9

D) 2.3

15.The sum of two numbers is 15 and one of them is 5 greater than the other.Find the numbers.

A)5, 10

B)7, 8

C)25, 15

D)4,8

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